



CYCLONE FOR
RENESAS



CYCLONE FOR RENESAS: The Ultimate Production Tool

Fast & Flexible

Overview

The **Cyclone for Renesas** is a powerful **stand-alone** in-circuit programmer for Renesas devices. It is able to communicate with a device using the control protocol of the target processor. The Cyclone is equipped with **Ethernet, USB, and Serial Ports**, which allow for quick and easy configuration. Once the Cyclone is configured, programming operations are completed in **one touch**.

The Cyclone's flexibility and intuitive software allow for a seamless transition to the **production environment**. The Cyclone and the target processor may be local to the PC or remotely connected via Ethernet. **Multiple Cyclones** on your network can easily be detected and controlled from the same PC. In addition, the Cyclone has been specifically designed with features like voltage protection technology in order to withstand the rigors of a production environment.

In **Stand-Alone Mode**, the Cyclone is configured and loaded with one or more programming images. Control of the Cyclone may then be **automated** using a PC (e.g., for large production runs), or it can be operated completely **independent of the PC** (e.g., for field updates). An **LCD screen** facilitates configuration and operation of the unit. The display's menu-based navigation allows the user to easily select the image to be programmed when the Cyclone contains multiple programming images.

For the ultimate in production programming, the Cyclone for Renesas can be used with P&E's **Cyclone Automated Control Package** (available separately). This package features a .DLL that enables **control of multiple Cyclones**, dynamic data programming, multiple programming image management, and automated error detection.

Target Architectures

- R8C
- RL78 (Rev. C Only)
- M16C & M16C/80
- M32C
- H8 & H8S/Tiny

Applications

- Production Programming
- Testing
- Field Maintenance

Hardware Features

- Ethernet, USB, and Serial Interfaces
- Supports extremely fast communications
- LCD Screen
- CompactFlash interface for expanded memory (requires separate activation)
- Multi-voltage support for targets ranging from 1.8 to 5.5 Volts
- Production environment ready with voltage protection technology

Flash Programming Highlights

- Highly intuitive, fast in-circuit flash programming
- Capable of programming external flash
- Multiple image support for programming of different images during production runs
- PC-controlled and stand-alone function for programming and testing of units on production lines
- Cyclone Automated Control Package (available separately) includes a .DLL that allows control of multiple Cyclones

